

Figure 2A

250

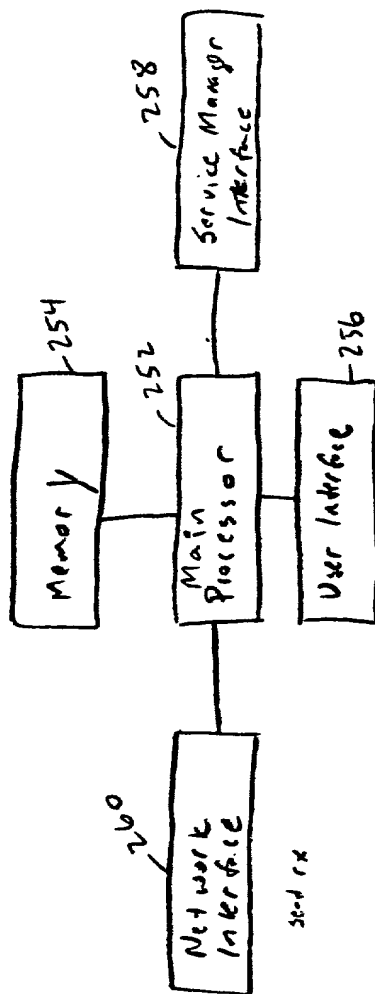


Figure 2B

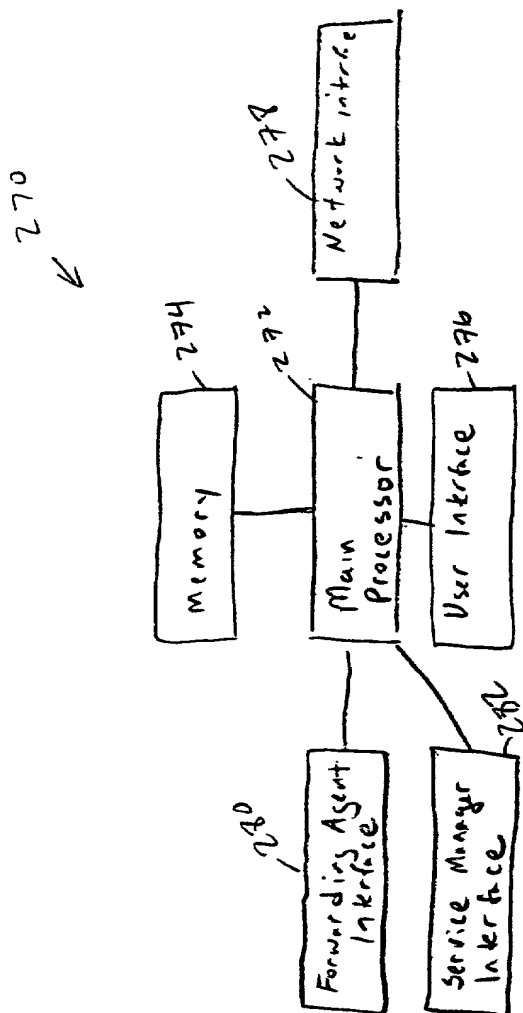


Figure 2C

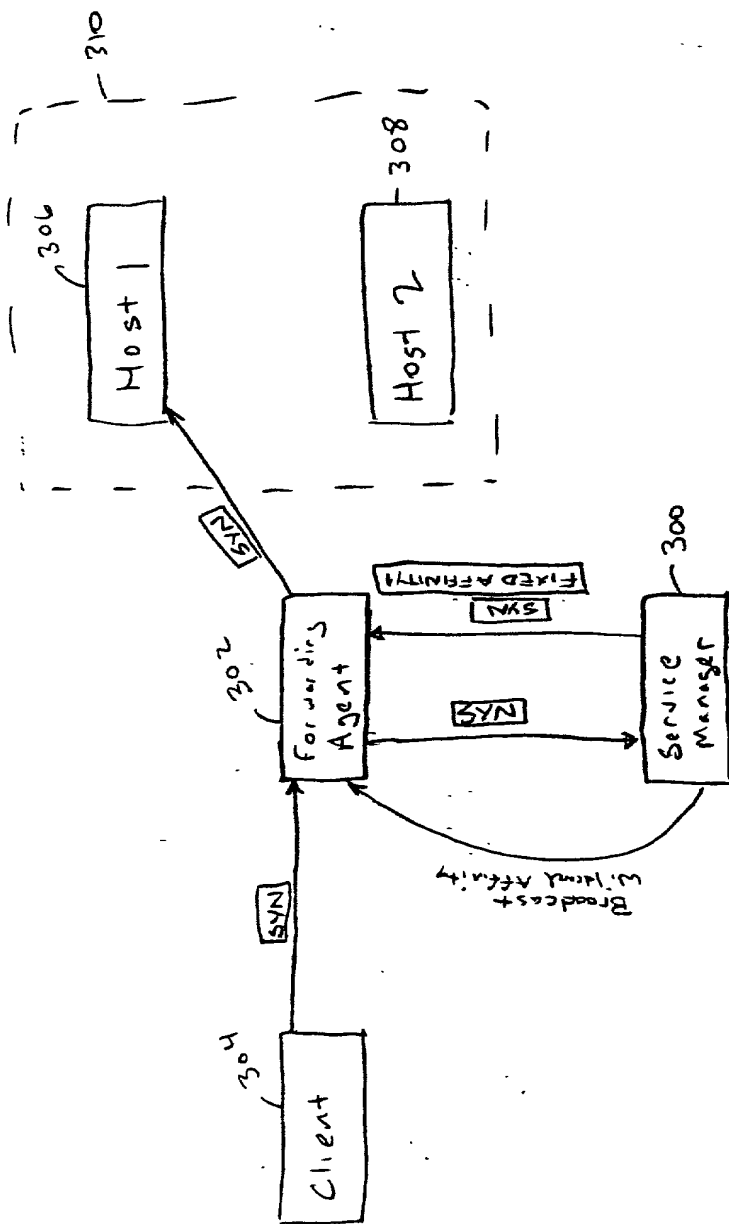


Figure 3A

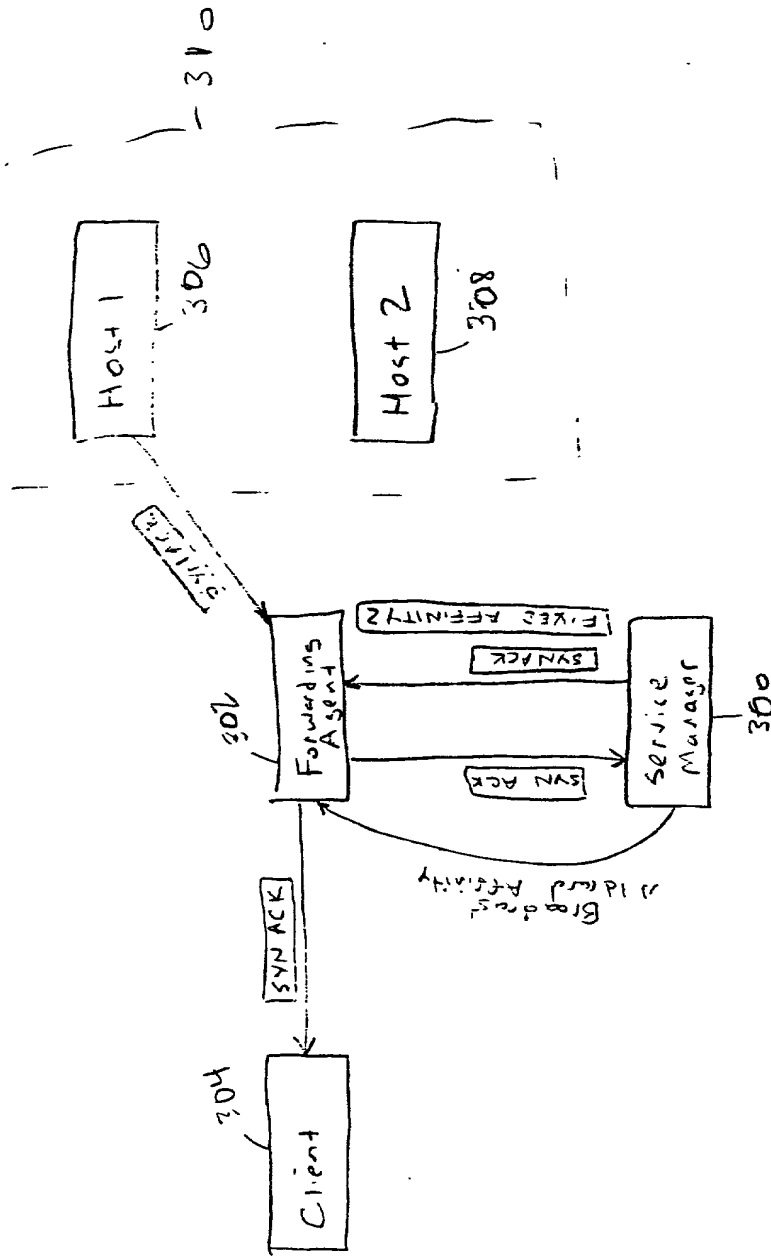


Figure 3B

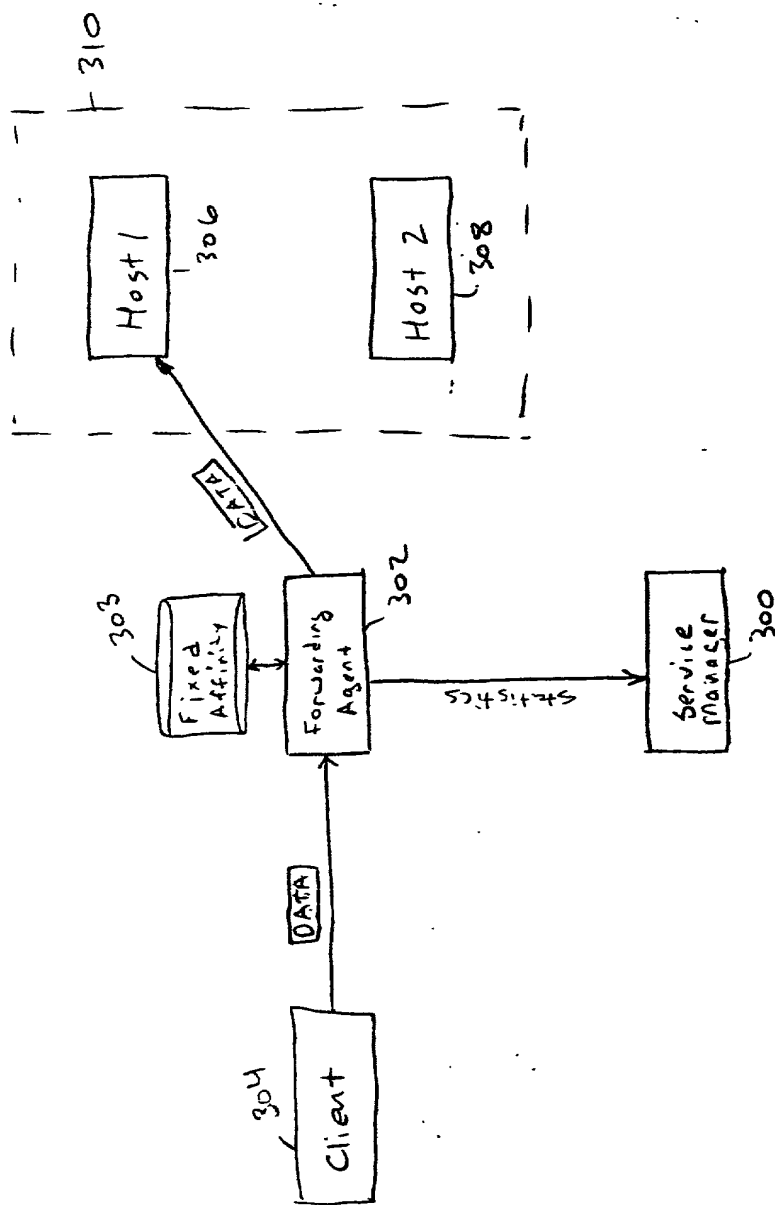


Figure 3C

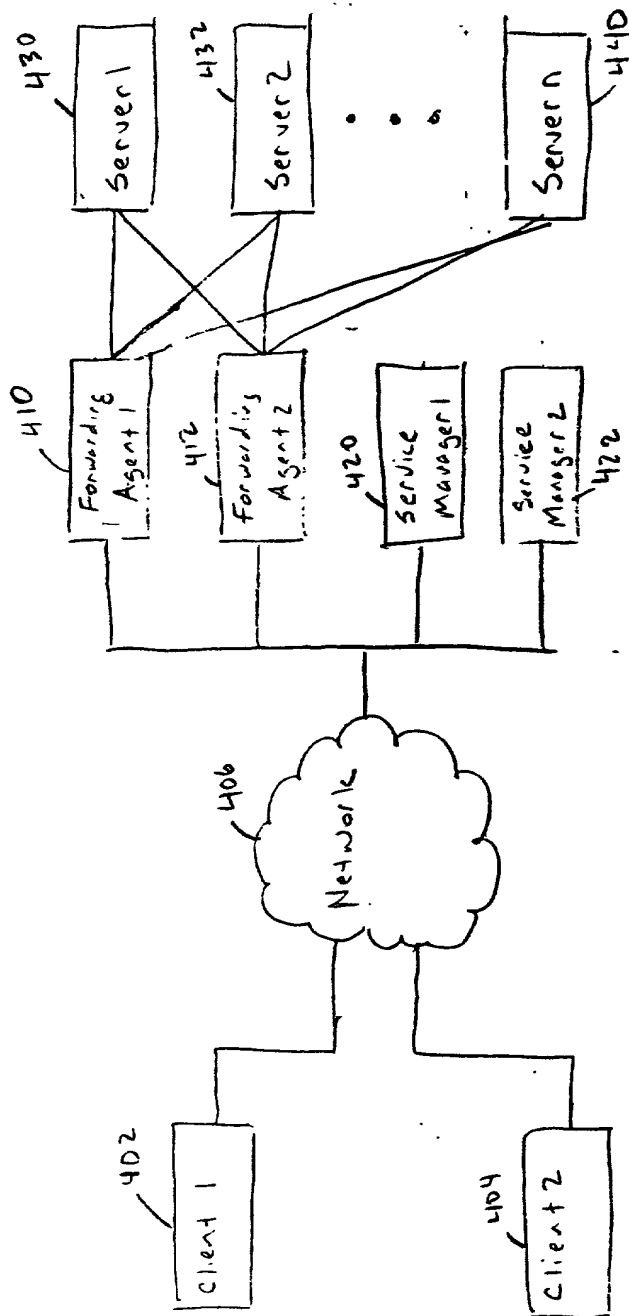


Figure 4

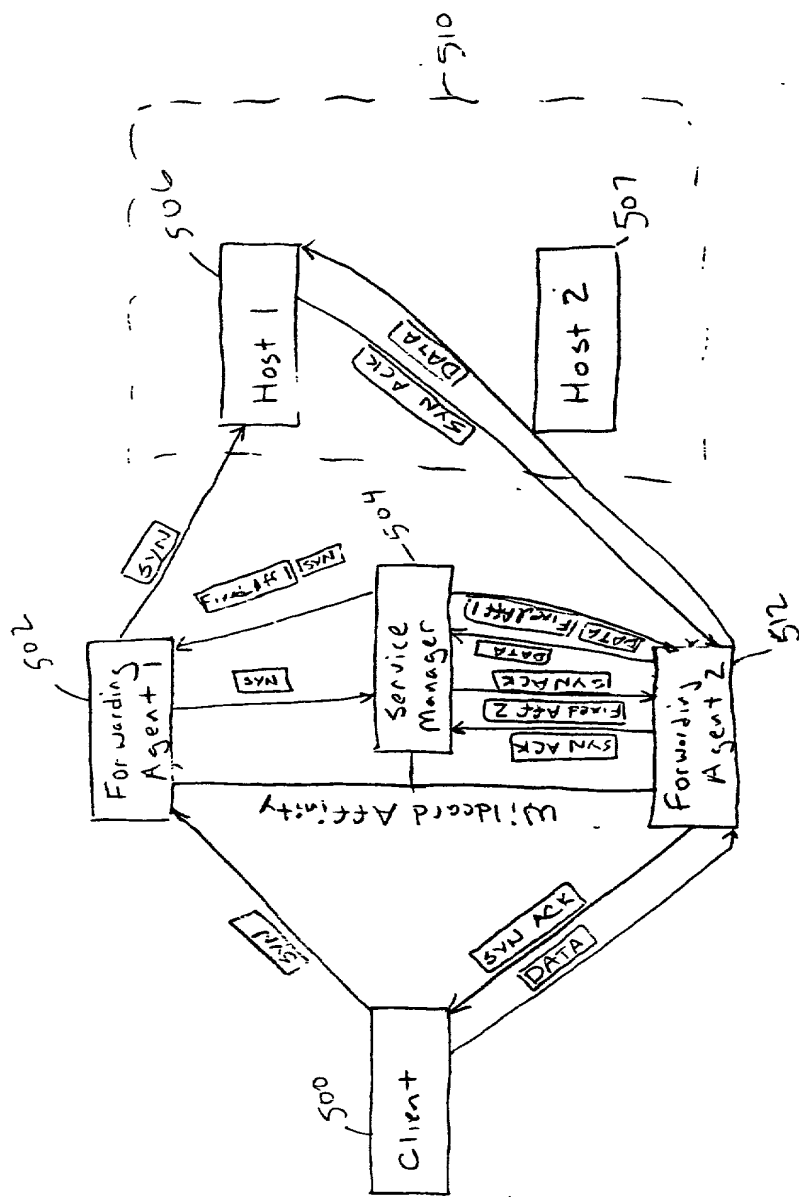


Figure 5

| | |
|--------------------|-----|
| Affinity Key | 602 |
| Dispatch Flag | 604 |
| Information Flag | 606 |
| Forward IP address | 608 |
| Time to live | 610 |

↙ 600

Figure 6

70°

| | |
|------------------------|-----|
| Dispatch Flag | 702 |
| Information Flag | 704 |
| Protocol | 706 |
| Source IP address | 708 |
| Source netmask | 710 |
| Destination IP address | 712 |
| Destination netmask | 714 |
| Source port | 716 |
| Destination port | 718 |
| Forward IP address | 720 |
| Time to live | 722 |

Figure 7

800
←

| | |
|------------------|-----|
| Protocol version | 802 |
| Message type | 804 |

Figure 8A

810
←

| | |
|----------------|-----|
| Required flag | 812 |
| Segment type | 814 |
| Segment length | 816 |

Figure 8B

820
←

| | |
|---------------|-----|
| Security type | 822 |
| Security data | 824 |

Figure 8C

Downloaded from www.stuvia.com/doc/1000000/1000000

| | |
|-------------------------------|-----|
| Service message header | 902 |
| Security segment | 903 |
| Wild card affinity | 904 |
| Action List | 906 |
| Affinity service precedence | 908 |
| Backup service precedence | 909 |
| Interest data | 910 |
| Service manager interest data | 912 |
| Action segments | 914 |

← 900

Figure 9A

| | |
|--------------------------------|-----|
| Service message header | 922 |
| Security segment | 924 |
| Fixed affinity | 926 |
| Affinity service precedence | 928 |
| Backup service precedence | 929 |
| Action segments | 930 |
| Identity information | 932 |
| Service manager interest data | 934 |
| Forwarding agent interest data | 936 |
| IP packet segment | 938 |

← 920

Figure 9B

| | |
|---|-----|
| Service message header | 941 |
| Security segment | 942 |
| Action list segment | 944 |
| Affinity Segment.. (from original affinity) | 946 |
| Identity information (from original affinity) | 948 |
| Service manager interest data | 950 |
| Forwarding agent interest data | 952 |

- 9410

Figure 9C

| | |
|---|-----|
| Service message header | 962 |
| Security Segment | 964 |
| Affinity, Identifier - | 966 |
| Identity information (from original affinity) | 968 |
| Service manager interest data | 970 |
| Forwarding agent interest data | 972 |
| IP packet segment | 974 |

← 960

Figure 9D

| | |
|------------------------|-----|
| Service message header | 982 |
| IP packet segment | 984 |

← 980

Figure 9E

007433-070001

1000 ↙

| | |
|------------------|------|
| Dispatch Flag | 1002 |
| Information Flag | 1004 |
| Affinity key | 1006 |
| Interest mask | 1008 |

Figure 10 A

1010 ↙

| | |
|-------------------|------|
| Search order Flag | 1012 |
| Precedence value | 1014 |

Figure 10 B

1020 —

| | |
|-------------------------------|------|
| Service Manager Interest Data | 1021 |
|-------------------------------|------|

Figure 10 C

1022 —

| | |
|--------------------------------|------|
| Forwarding Agent Interest Data | 1023 |
|--------------------------------|------|

Figure 10 D

1024 —

| | |
|----------------------|------|
| IP address of sender | 1025 |
| Character host name | 1026 |

Figure 10 E

← 1070

| | |
|---------------|------|
| Action Type 1 | 1072 |
| Action Type 2 | 1074 |
| . | |
| . | |
| . | |
| Action Type n | 1080 |

Figure 10J

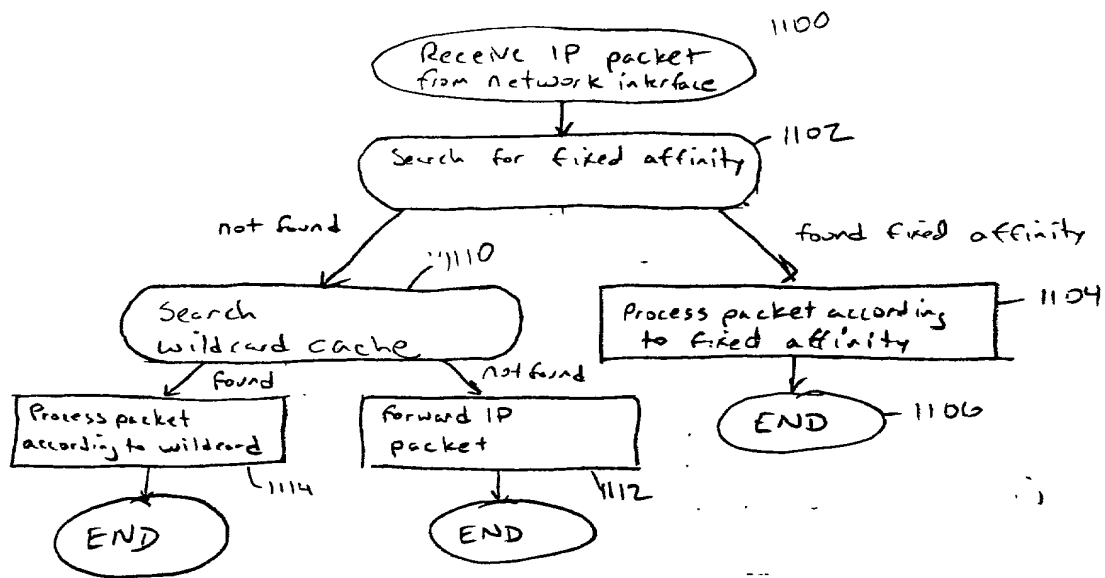


Figure 11

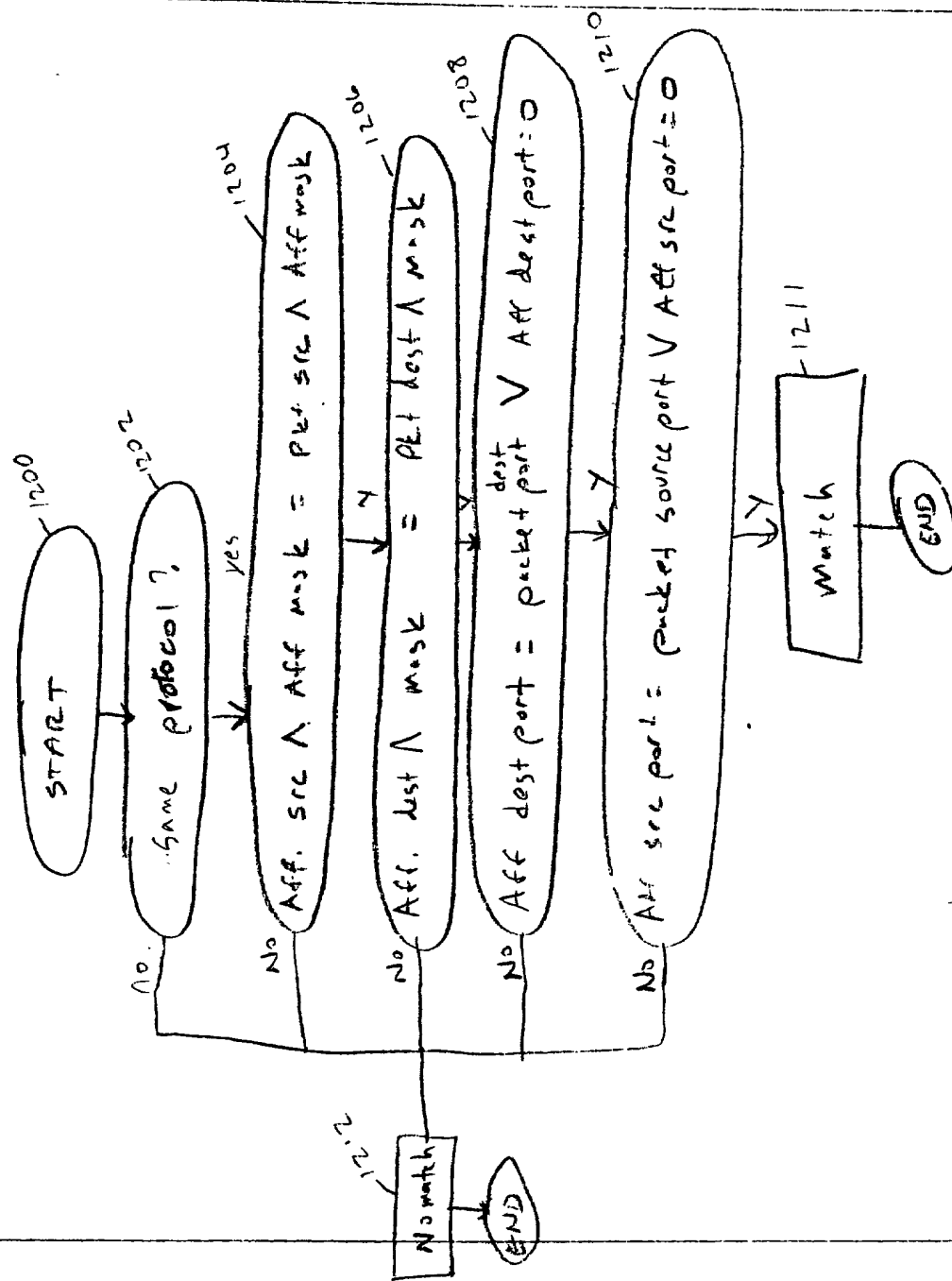


Fig. 12

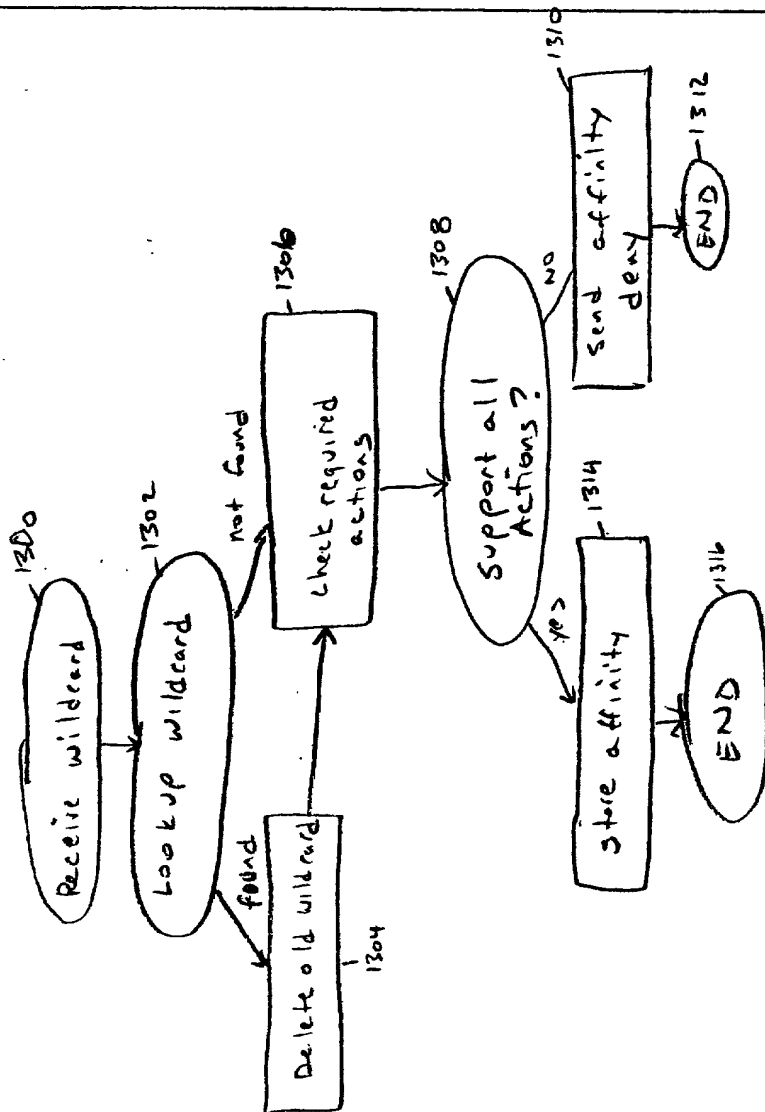


FIGURE 13

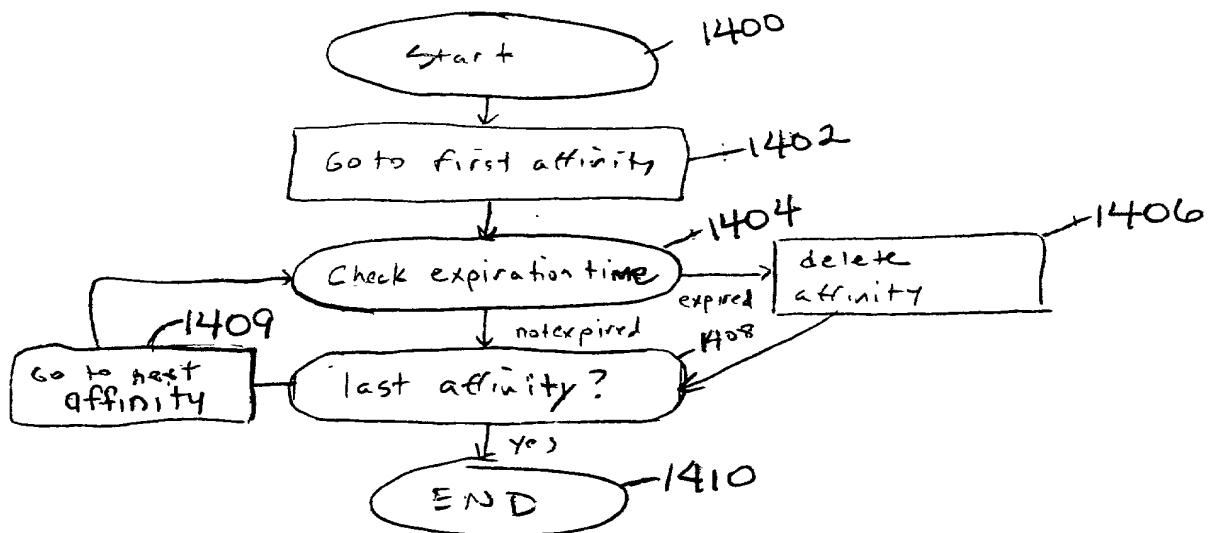


FIGURE 14

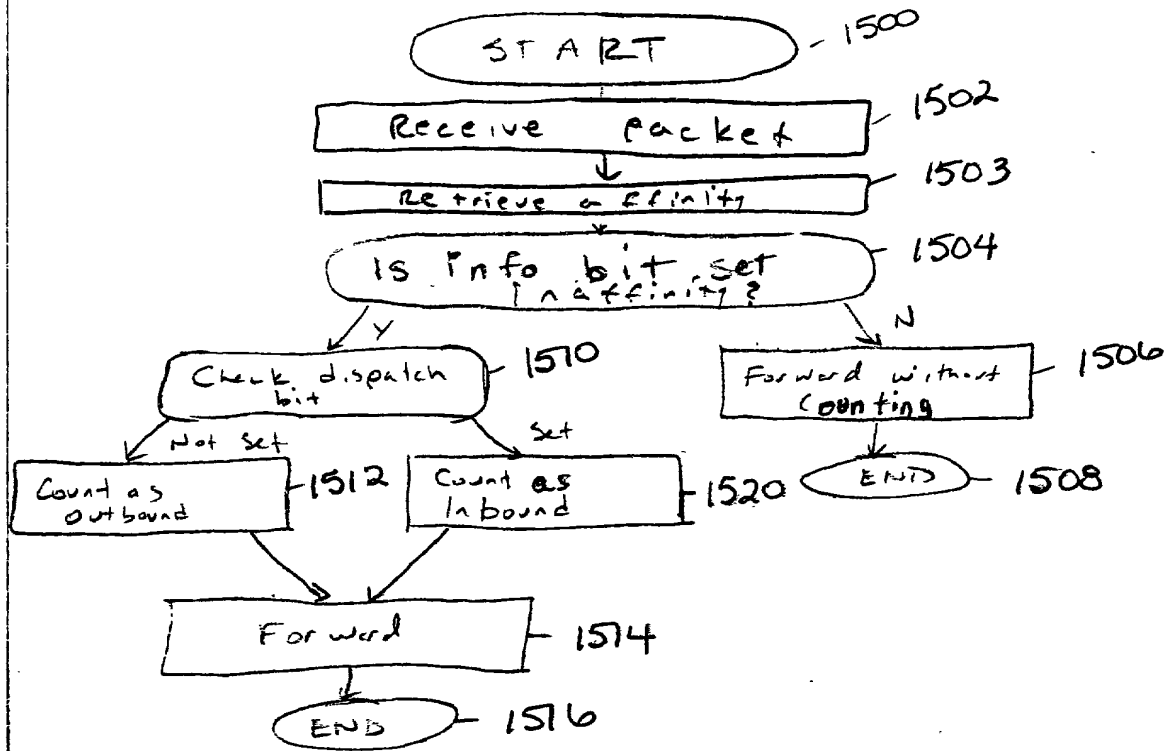


FIGURE 15

| Forwarding Address | Info | Dispatch | Action |
|--------------------|------|----------|--------------------------|
| X | 0 | X | Dispatch |
| X | X | 0 | Count out bound |
| X | X | X | Count in bound, Dispatch |
| 0 | X | X | Count, drop |
| 0 | 0 | X | Drop |

FIGURE 16 A

| NAT ADDRESS | Info | Dispatch | Action |
|-------------|------|----------|----------------|
| X | X | X | Count Inbound |
| X | X | 0 | Count Outbound |
| X | 0 | — | Do not count |

FIGURE 16 B

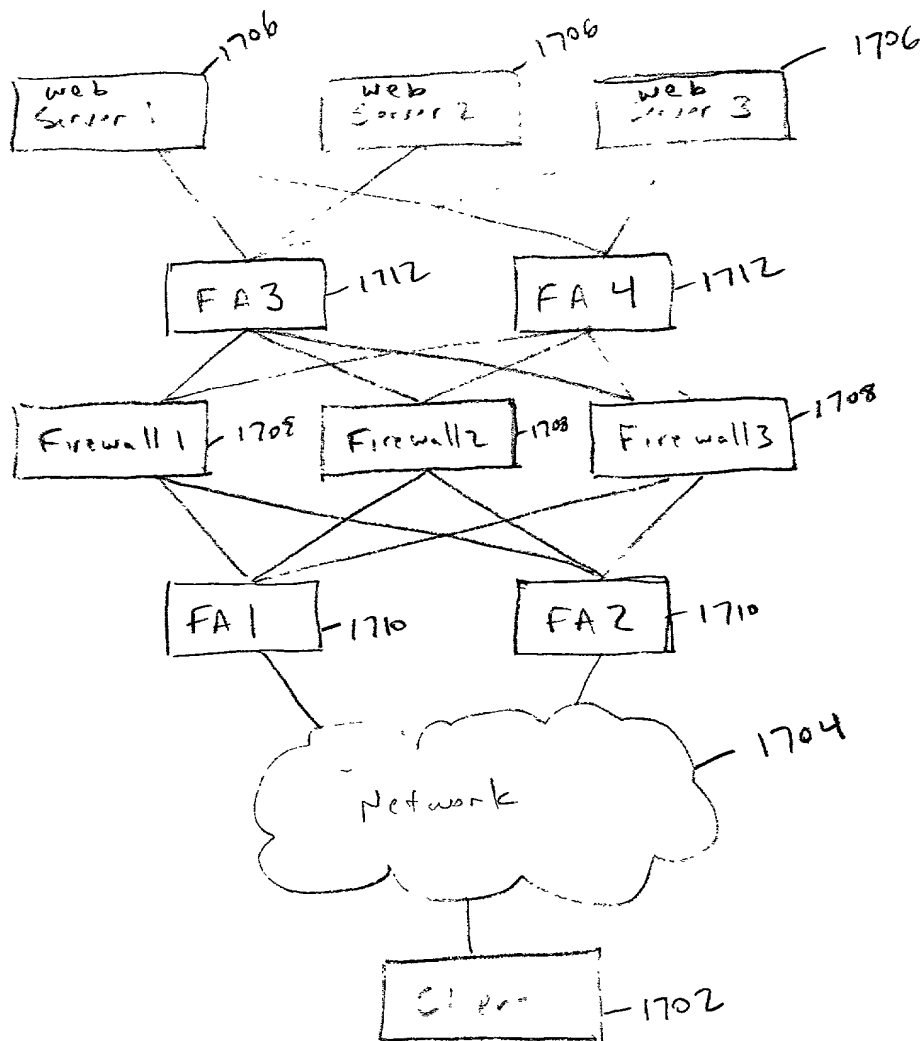


Figure 17

| Tier 1 Forwarding Agents |
|--------------------------|
| Forwarding Agent 1 |
| Forwarding Agent 2 |

Figure 18 A

| Tier 1 Appliances |
|-------------------|
| Server 1 |
| Server 2 |
| Server 3 |

Figure 18 C

| Tier 2 Forwarding Agents |
|--------------------------|
| Forwarding Agent 3 |
| Forwarding Agent 4 |

Figure 18 B

| Tier 2 Appliances |
|-------------------|
| Server 1 |
| Server 2 |
| Server 3 |

Figure 18 D

| Protocol |
|----------------|
| Client IP addr |
| Client Port |
| Server IP addr |
| Server Port |
| Tier 1 Server |
| ... |
| Tier N Server |

Figure 18 E

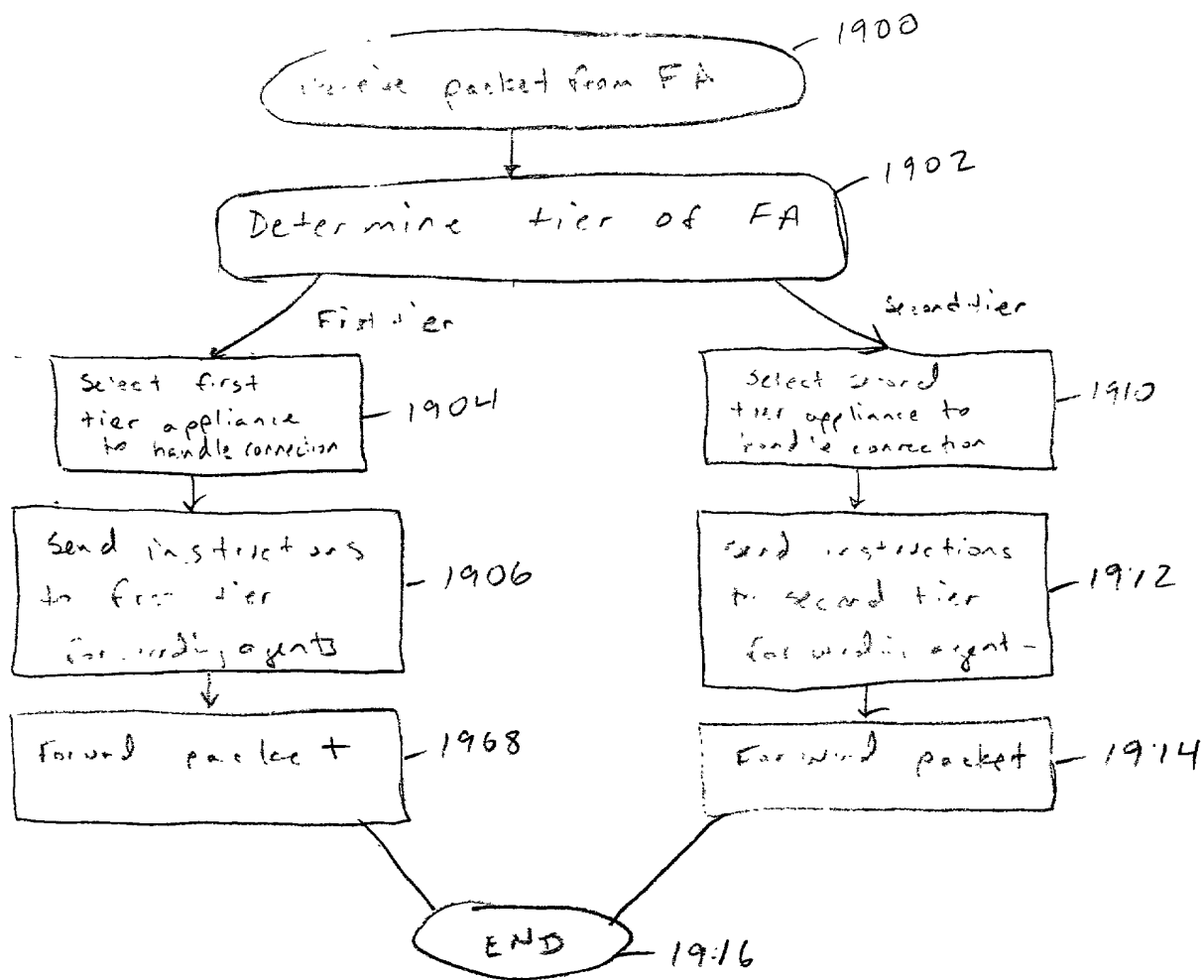


Figure 19

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector x for a specific value of n . The x-axis for all histograms is labeled 'Number of non-zero elements' and ranges from 0 to 120. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The histograms are labeled with n values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As n increases, the distribution of non-zero elements shifts to the right, indicating that the vector x contains more non-zero elements as n increases.

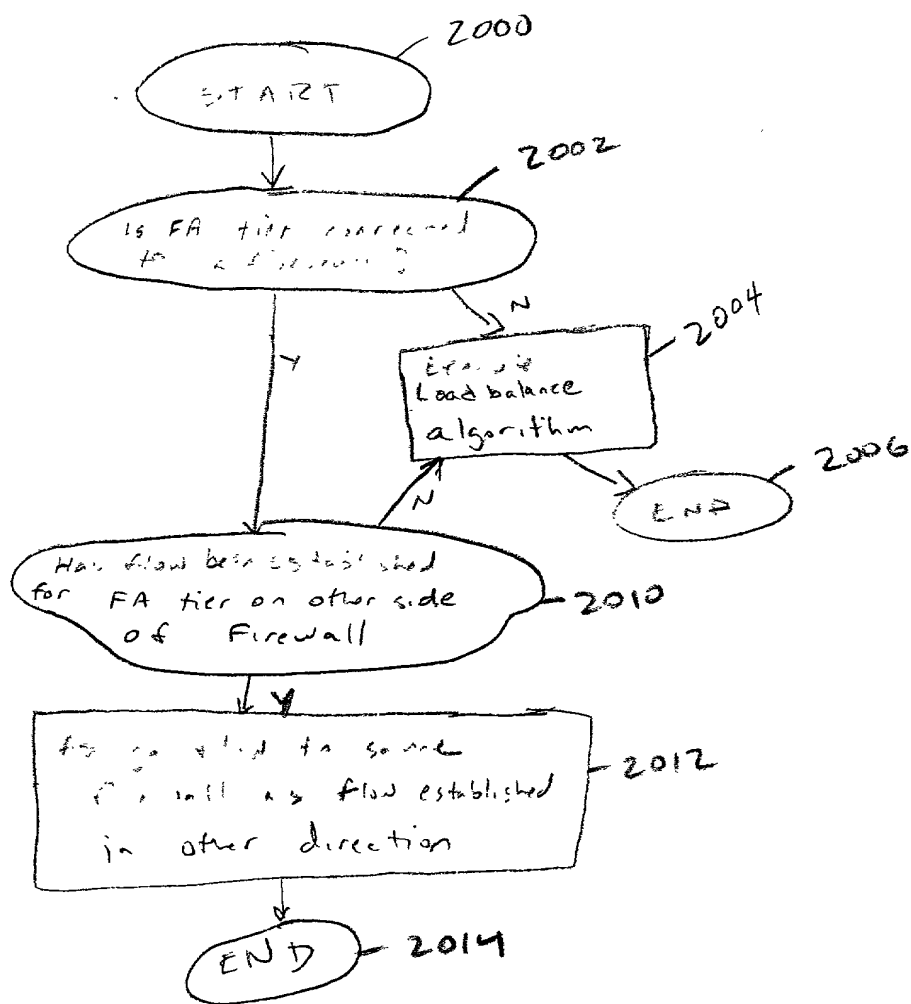


Figure 20